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| Name: Class: 8 /……........ | |
| Book pages: | |
| From 6 /12 to 11 /12 /2011 | Date: |
| 8.13.6 | Core Standard number |
| *Sts. able to :*   * ***Define*** *corrosion as a chemical reaction and write its chemical reaction.* * ***Know*** *That rusting is a special name given to corrosion of iron.* * ***Investigate*** *into the rusting of iron nails.* * ***Know*** *that iron will rust in the presence of air and water.* * ***Know*** *the problems of rusting.* * ***Know*** *how to prevent rusting.*   *.* | Learning Objectives  Logo + text 2 |

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| **شعار-القسم** | **Chemistry** | **F:\شعار المدرسة.jpg** |
| **Worksheet ( 4 )** |
| **Corrosion** |

1. How corrosion is different from rusting?

***Corrosion happens for most metals while rusting is a corrosion that happens only for iron and steel.***

1. An iron nail is placed in a test tube. After a few days the iron nail is examined.

How would be appear the iron nail if:

1. Test tube contains only water : **no rust.**
2. Test tube contains water and air: **iron nail rusts**.
3. A car driver has done an accident, the car is damaged and left in the place of the accident. How would appear the damaged part of the car? Explain why?

***The damaged part of the car corrodes. Because most parts of cars are made up of steel.***

1. Why rust is always a problem for engineers?

***Because it damages objects made up of steel or iron and it costs millions for their replacement.***

1. What is the simplest way of stopping rusting?

***Prevent oxygen and water getting at the metal.***

1. Describe the following ways of protection against rust:
2. Painting: ***it is used to protect many everyday steel objects like cars, bridges ..***
3. Oiling: ***is used to prevent corrosion of tools and machinery.***
4. Galvanizing: ***it is the coating of steel or iron by zinc.***
5. Electroplating: ***use of electricity to put a thin coating of an expensive metal on*** ***iron***.
6. Tin plating: ***make a sheet of tin on the food containers, tin coating is strong non poisonous and prevents corrosion***.